

291

6.2/6.3 HW

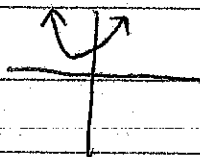
Key p298 32, 36, 304 14-23, 32

32. $x^2 + 3x - 2 = 0$

$\{-3.562, .562\}$

36. $x^2 + 2x + 5 = 0$

no Real solution



14. $x^2 + 5x - 24 = 0$

$(x+8)(x-3)$

$\{-8, 3\}$

15. $x^2 - 3x - 28 = 0$

$(x-7)(x+4)$

$\{7, -4\}$

$$\begin{array}{r} -28 \\ -7 \times 4 \\ -3 \end{array}$$

16. $\sqrt{x^2} = \sqrt{25}$

$x = \pm 5$

$\{\pm 5\}$

17. $x^2 = 81$

$\{\pm 9\}$

$$\begin{array}{r} -18 \\ +6 \times -3 \\ 3 \end{array}$$

$$\begin{array}{r} -21 \\ -7 \times 3 \\ +1 \end{array}$$

18. $x^2 + 3x - 18 = 0$

$(x+6)(x-3)$

$\{-6, 3\}$

19. $x^2 - 4x - 21 = 0$

$(x-7)(x+3)$

$\{-3, 7\}$

20. $3x^2 - 5x = 0$

$x(3x-5) = 0$

$x = 0 \quad x = \frac{5}{3}$

$\{0, \frac{5}{3}\}$

21. $4x^2 + 3x = 0$

$x(4x+3) = 0$

$\{0, -\frac{3}{4}\}$

$$\begin{array}{r} 36 \\ -6 \quad -6 \\ \hline 12 \end{array}$$

22. $x^2 - 12x + 36 = 0$

$$(x-6)^2 = 0$$

$$x = 6$$

$$\{6\}$$

23. $x^2 - 16x + 64 = 0$

$$(x-8)^2 = 0$$

$$\{8\}$$

32. $x(x+6)(x-5) = 0$

$$\{0, -6, 5\}$$